CREATE TABLE rcb\_players (

player\_id INT UNSIGNED NOT NULL AUTO\_INCREMENT,

player\_name VARCHAR(100) NOT NULL,

role ENUM('Batsman', 'Bowler', 'All-rounder', 'Wicketkeeper', 'Wicketkeeper-Batsman') NOT NULL,

nationality VARCHAR(50) NOT NULL,

seasons\_played JSON COMMENT 'Array of seasons played with RCB',

matches\_played SMALLINT UNSIGNED DEFAULT 0,

runs\_scored MEDIUMINT UNSIGNED DEFAULT 0,

batting\_avg DECIMAL(6,2) UNSIGNED,

strike\_rate DECIMAL(6,2) UNSIGNED,

wickets\_taken SMALLINT UNSIGNED DEFAULT 0,

bowling\_avg DECIMAL(6,2) UNSIGNED,

economy\_rate DECIMAL(6,2) UNSIGNED,

highest\_score TINYINT UNSIGNED,

best\_bowling VARCHAR(20),

auction\_price DECIMAL(8,2) UNSIGNED COMMENT 'Price in crore INR',

current\_status ENUM('Active', 'Retired', 'Traded', 'Released', 'Injured'),

last\_updated TIMESTAMP DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP,

PRIMARY KEY (player\_id),

INDEX idx\_player\_name (player\_name),

INDEX idx\_role (role),

INDEX idx\_nationality (nationality)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;

INSERT INTO rcb\_players (

player\_name, role, nationality, seasons\_played, matches\_played,

runs\_scored, batting\_avg, strike\_rate, wickets\_taken, bowling\_avg,

economy\_rate, highest\_score, best\_bowling, auction\_price, current\_status

) VALUES (

'Faf du Plessis', 'Batsman', 'South Africa', '["2022", "2023", "2024"]', 29,

1078, 39.92, 130.50, 0, NULL,

NULL, 96, NULL, 7.00, 'Active'

);

-- Insert Virat Kohli

INSERT INTO rcb\_players (

player\_name, role, nationality, seasons\_played, matches\_played,

runs\_scored, batting\_avg, strike\_rate, wickets\_taken, bowling\_avg,

economy\_rate, highest\_score, best\_bowling, auction\_price, current\_status

) VALUES (

'Virat Kohli', 'Batsman', 'India', '["2008", "2009", "2010", "2011", "2012", "2013", "2014", "2015", "2016", "2017", "2018", "2019", "2020", "2021", "2022", "2023", "2024"]', 237,

7263, 37.25, 130.02, 4, 94.25,

8.71, 113, '1/7', 15.00, 'Active'

);

-- Insert Glenn Maxwell

INSERT INTO rcb\_players (

player\_name, role, nationality, seasons\_played, matches\_played,

runs\_scored, batting\_avg, strike\_rate, wickets\_taken, bowling\_avg,

economy\_rate, highest\_score, best\_bowling, auction\_price, current\_status

) VALUES (

'Glenn Maxwell', 'All-rounder', 'Australia', '["2021", "2022", "2023", "2024"]', 47,

1278, 32.00, 157.62, 15, 35.20,

8.45, 78, '2/15', 11.00, 'Active'

);

-- Insert Mohammed Siraj

INSERT INTO rcb\_players (

player\_name, role, nationality, seasons\_played, matches\_played,

runs\_scored, batting\_avg, strike\_rate, wickets\_taken, bowling\_avg,

economy\_rate, highest\_score, best\_bowling, auction\_price, current\_status

) VALUES (

'Mohammed Siraj', 'Bowler', 'India', '["2018", "2019", "2020", "2021", "2022", "2023", "2024"]', 73,

46, 4.60, 85.19, 78, 27.95,

8.54, 12, '4/21', 7.00, 'Active'

);

-- Insert Cameron Green

INSERT INTO rcb\_players (

player\_name, role, nationality, seasons\_played, matches\_played,

runs\_scored, batting\_avg, strike\_rate, wickets\_taken, bowling\_avg,

economy\_rate, highest\_score, best\_bowling, auction\_price, current\_status

) VALUES (

'Cameron Green', 'All-rounder', 'Australia', '["2024"]', 0,

0, NULL, NULL, 0, NULL,

NULL, 0, NULL, 17.50, 'Active'

);

-- Insert Alzarri Joseph

INSERT INTO rcb\_players (

player\_name, role, nationality, seasons\_played, matches\_played,

runs\_scored, batting\_avg, strike\_rate, wickets\_taken, bowling\_avg,

economy\_rate, highest\_score, best\_bowling, auction\_price, current\_status

) VALUES (

'Alzarri Joseph', 'Bowler', 'West Indies', '["2024"]', 0,

0, NULL, NULL, 0, NULL,

NULL, 0, NULL, 11.50, 'Active'

);

-- Insert Dinesh Karthik

INSERT INTO rcb\_players (

player\_name, role, nationality, seasons\_played, matches\_played,

runs\_scored, batting\_avg, strike\_rate, wickets\_taken, bowling\_avg,

economy\_rate, highest\_score, best\_bowling, auction\_price, current\_status

) VALUES (

'Dinesh Karthik', 'Wicketkeeper-Batsman', 'India', '["2015", "2022", "2023", "2024"]', 56,

876, 26.54, 147.47, 0, NULL,

NULL, 97, NULL, 5.50, 'Active'

);

-- Insert Rajat Patidar

INSERT INTO rcb\_players (

player\_name, role, nationality, seasons\_played, matches\_played,

runs\_scored, batting\_avg, strike\_rate, wickets\_taken, bowling\_avg,

economy\_rate, highest\_score, best\_bowling, auction\_price, current\_status

) VALUES (

'Rajat Patidar', 'Batsman', 'India', '["2021", "2022", "2023", "2024"]', 23,

749, 35.66, 147.53, 0, NULL,

NULL, 112, NULL, 0.20, 'Active'

);

-- Insert Mayank Dagar

INSERT INTO rcb\_players (

player\_name, role, nationality, seasons\_played, matches\_played,

runs\_scored, batting\_avg, strike\_rate, wickets\_taken, bowling\_avg,

economy\_rate, highest\_score, best\_bowling, auction\_price, current\_status

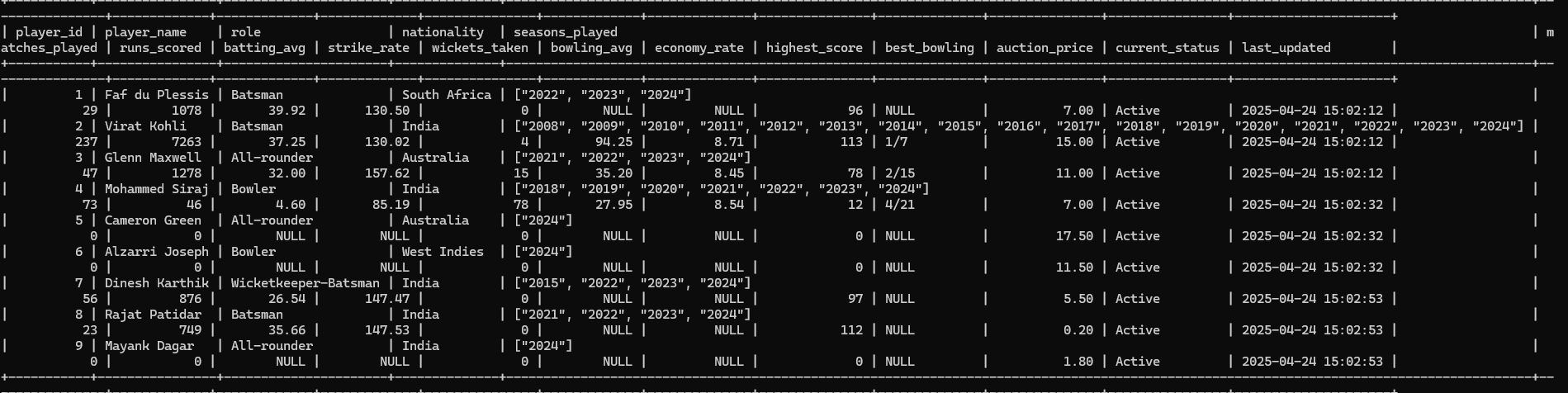
) VALUES (

'Mayank Dagar', 'All-rounder', 'India', '["2024"]', 0,

0, NULL, NULL, 0, NULL,

NULL, 0, NULL, 1.80, 'Active'

);

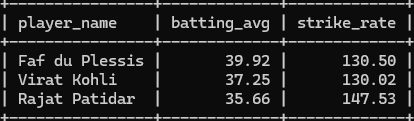


-- Find all active batsmen

SELECT player\_name, batting\_avg, strike\_rate

FROM rcb\_players

WHERE role = 'Batsman' AND current\_status = 'Active';

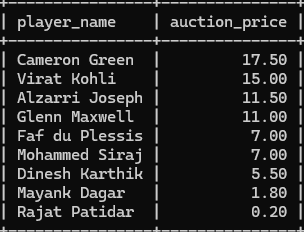


-- Get players sorted by highest auction price

SELECT player\_name, auction\_price

FROM rcb\_players

ORDER BY auction\_price DESC;



-- Average batting stats by player role

SELECT

role,

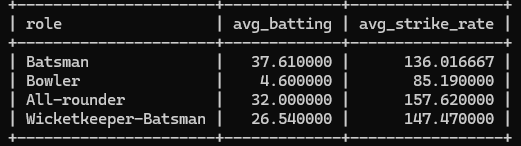
AVG(batting\_avg) AS avg\_batting,

AVG(strike\_rate) AS avg\_strike\_rate

FROM rcb\_players

WHERE batting\_avg IS NOT NULL

GROUP BY role;

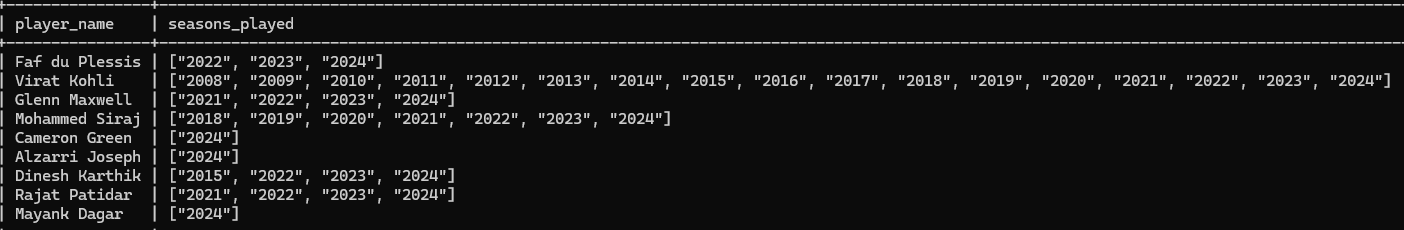


-- Find players who joined in 2024 using JSON functions

SELECT player\_name, seasons\_played

FROM rcb\_players

WHERE JSON\_CONTAINS(seasons\_played, '"2024"');



SELECT

player\_name,

runs\_scored,

batting\_avg,

strike\_rate,

auction\_price,

ROUND((runs\_scored/auction\_price), 2) AS runs\_per\_crore,

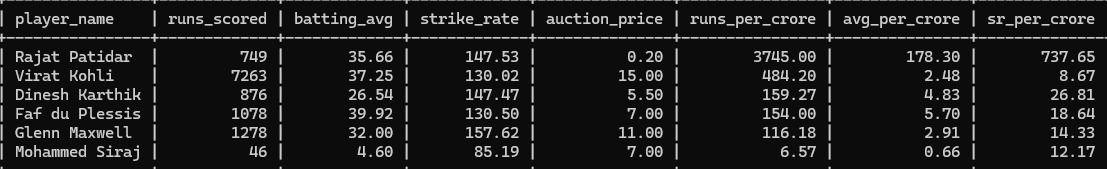
ROUND((batting\_avg/auction\_price), 2) AS avg\_per\_crore,

ROUND((strike\_rate/auction\_price), 2) AS sr\_per\_crore

FROM rcb\_players

WHERE runs\_scored > 0 AND auction\_price > 0

ORDER BY runs\_per\_crore DESC;



SELECT player\_name, seasons\_played

FROM rcb\_players

WHERE JSON\_CONTAINS(seasons\_played, '["2023", "2024"]');

